Figure 1

10.00E-	4.01E-04
03	
2.00E-02	8.03E-04
3.00E-02	1.21E-03
4.00E-02	1.61E-03
5.00E-02	2.02E-03
6.00E-02	2.42E-03
7.00E-02	2.83E-03
8.00E-02	3.23E-03
9.00E-02	3.62E-03
10.00E-	4.00E-03
02	
0.11	4.36E-03
0.12	4.60E-03
0.13	4.25E-03

Fig. 2a

10.00E- 03	4.01E-04
10.00E-	4.02E-04
03 10.00E-	4.02E-04
03 10.00E-	4.03E-04
03 10.00E-	4.03E-04
03 10.00E-	4.02E-04
03 10.00E-	3.99E-04
03 10.00E-	3.92E-04
03 10.00E-	3.77E-04
03 10.00E-	3.54E-04
03 10.00E-	3.21E-04
03 10.00E-	4.01E-04
03 10.00E-	4.02E-04
03 10.00E- 03	4.02E-04
10.00E- 03	4.03E-04
10.00E- 03	4.03E-04
10.00E- 03	4.02E-04
10.00E- 03	3.99E-04
10.00E- 03	3.92E-04
10.00E- 03	3.77E-04
10.00E- 03	3.54E-04
10.00E- 03	3.21E-04
2.00E-02 2.00E-02 2.00E-02 2.00E-02 2.00E-02 2.00E-02 2.00E-02 2.00E-02 2.00E-02 2.00E-02 2.00E-02	8.03E-04 8.04E-04 8.05E-04 8.06E-04 8.08E-04 8.03E-04 7.90E-04 7.64E-04 7.19E-04 6.52E-04 8.03E-04

Fig. 26

2.00E-02 2.00E-02 2.00E-02 2.00E-02 2.00E-02 2.00E-02 2.00E-02 2.00E-02 2.00E-02 3.00E-02 4.00E-02	8.04E-04 8.05E-04 8.06E-04 8.08E-04 8.08E-04 7.90E-04 7.64E-04 7.64E-04 7.19E-04 6.52E-04 1.21E-03 1.21E-03 1.21E-03 1.22E-03 1.22E-03 1.21E-03 1.21E-03 1.21E-03 1.21E-03 1.21E-03 1.21E-03 1.21E-03 1.21E-03 1.21E-03 1.21E-03 1.21E-03 1.21E-03 1.21E-03 1.21E-03 1.21E-03 1.22E-03 1.22E-03 1.22E-03 1.22E-03 1.22E-03 1.22E-03 1.22E-03 1.22E-03 1.22E-03 1.22E-03 1.22E-03 1.22E-03 1.22E-03 1.22E-03 1.22E-03 1.61E-03 1.61E-03 1.61E-03 1.62E-03
4.00E-02	1.64E-03
4.00E-02	1.65E-03
4.00E-02	1.64E-03

10.00E- 02	3.98E-03
10.00E-	3.99E-03
02 10.00E-	4.06E-03
02 10.00E-	4.26E-03
02 10.00E- 02	4.67E-03
10.00E-	5.22E-03
02 10.00E-	5.74E-03
02 10.00E-	6.04E-03
02 10.00E-	5.96E-03
02 10.00E-	4.00E-03
02 10.00E-	4.00E-03
02 10.00E-	3.98E-03
02 10.00E- 02	3.99E-03
10.00E- 02	4.06E-03
10.00E- 02	4.26E-03
10.00E- 02	4.67E-03
10.00E- 02	5.22E-03
10.00E- 02	5.74E-03
10.00E- 02	6.04E-03
10.00E- 02	5.96E-03
0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11	4.36E-03 4.37E-03 4.30E-03 4.33E-03 4.51E-03 5.12E-03 6.06E-03 6.97E-03 7.58E-03 7.63E-03 4.36E-03 4.37E-03 4.33E-03 4.33E-03

0.00E+01	0.00E+01
10.00E-03	3.91E-04
2.00E-02	7.80E-04
3,00E-02	1.17E-03
4.00E-02	1.55E-03
5.00E-02	1.92E-03
6.00E-02	2.28E-03
7.00E-02	2.63E-03
8.00E-02	2.97E-03
9.00E-02	3.28E-03
10.00E-02	3.57E-03
0.11	3.84E-03
0.12	4.08E-03
0.13	4.30E-03
0.00E+01	0.00E+01
10.00E-03	3.91E-04
2.00E-02	7.80E-04
3.00E-02	1.17E-03
4.00E-02	1.55E-03
5.00E-02	1.92E-03
6.00E-02	2.28E-03
7.00E-02	2.63E-03
8.00E-02	2.97E-03
9.00E-02	3.28E-03
10.00E-02	3.57E-03
0.11	3.84E-03
0.12	4.08E-03
0.13	4.30E-03

Fig. 3

6.00E-02

2.57E-03

## Fig. 4 0.00E+01 0.00E+01 10.00E-4.01E-04 03 2.00E-02 8.05E-04 3.00E-02 1.21E-03 4.00E-02 1.62E-03 5.00E-02 2.03E-03 2.44E-03 6.00E-02 7.00E-02 2.84E-03 8.00E-02 3.23E-03 3.61E-03 9.00E-02 10.00E-3.95E-03 02 0.11 4.26E-03 0.12 4.53E-03 4.74E-03 0.13 0.00E+01 0.00E+01 4.00E-04 10.00E-03 2.00E-02 8.03E-04 1.21E-03 3.00E-02 1.63E-03 4.00E-02 5.00E-02 2.05E-03 6.00E-02 2.47E-03 7.00E-02 2.89E-03 3.31E-03 8.00E-02 3.70E-03 9.00E-02 10.00E-4.07E-03 02 4.40E-03 0.11 0.12 4.68E-03 4.91E-03 0.13 0.00E+01 0.00E+01 10.00E-3.94E-04 03 2.00E-02 7.95E-04 3.00E-02 1.21E-03 4.00E-02 1.63E-03 5.00E-02 2.07E-03 6.00E-02 2.52E-03 7.00E-02 2.97E-03 8.00E-02 3.42E-03 9.00E-02 3.86E-03 10.00E-4.26E-03 02 0.11 4.63E-03 4.95E-03 0.12 0.13 5.20E-03 0.00E+01 0.00E+01 10.00E-3.81E-04 03 2.00E-02 7.71E-04 3.00E-02 1.18E-03 4.00E-02 1.62E-03 5.00E-02 2.08E-03

7.00E-02 8.00E-02 9.00E-02 10.00E- 02	3.07E-03 3.58E-03 4.08E-03 4.55E-03
0.11	4.97E-03
0.12	5.34E-03
0.13	5.63E-03
0.00E+01	0.00E+01
10.00E-	3.50E-04
03 2.00E-02 3.00E-02 4.00E-02 5.00E-02 6.00E-02 7.00E-02 8.00E-02 9.00E-02 10.00E-	7.18E-04 1.12E-03 1.56E-03 2.06E-03 2.60E-03 3.18E-03 3.77E-03 4.37E-03 4.93E-03
0.11	5.45E-03
0.12	5.89E-03
0.13	6.23E-03
0.00E+01	0.00E+01
10.00E-	2.92E-04
2.00E-02	6.10E-04
3.00E-02	9.81E-04
4.00E-02	1.43E-03
5.00E-02	1.96E-03
6.00E-02	2.57E-03
7.00E-02	3.26E-03
8.00E-02	3.99E-03
9.00E-02	4.73E-03
10.00E-	5.44E-03
0.11	6.08E-03
0.12	6.63E-03
0.13	7.05E-03
0.00E+01	0.00E+01
10.00E-	1.88E-04
03 2.00E-02 3.00E-02 4.00E-02 5.00E-02 6.00E-02 7.00E-02 8.00E-02 9.00E-02 10.00E-	4.13E-04 7.17E-04 1.14E-03 1.71E-03 2.44E-03 3.29E-03 4.22E-03 5.17E-03 6.09E-03
0.11	6.93E-03
0.12	7.63E-03
0.13	8.16E-03

0.00E+01 10.00E-	0.00E+01 2.64E-05
03	
2.00E-02 3.00E-02	8.15E-05 2.40E-04
4.00E-02	5.94E-04
5.00E-02	1.20E-03
6.00E-02	2.08E-03
7.00E-02	3.18E-03 4.42E-03
8.00E-02 9.00E-02	5.71E-03
10.00E-	6.95E-03
02	
0.11	8.05E-03
0.12 0.13	8.97E-03 9.65E-03
0.13 0.00E+01	9.05E+01
10.00E-	-1.55E-04
03	
2.00E-02	-4.14E-04 -5.92E-04
3.00E-02 4.00E-02	-5.92E-04 -4.22E-04
5.00E-02	2.04E-04
6.00E-02	1.31E-03
7.00E-02	2.83E-03
8.00E-02	4.58E-03
9.00E-02 10.00E-	6.38E-03 8.08E-03
02	0.002-00
0.11	9.58E-03
0.12	1.08E-02
0.13 0.00E+01	1.17E-02 0.00E+01
10.00E-	6.80E-05
03	
2.00E-02	-9.64E-04
3.00E-02	-2.10E-03
4.00E-02 5.00E-02	-2.28E-03 -1.73E-03
6.00E-02	-2.29E-04
7.00E-02	2.05E-03
8.00E-02	4.65E-03
9.00E-02	7.33E-03
10.00E- 02	9.62E-03
0.11	1.17E-02
0.12	1.33E-02
0.13	1.45E-02

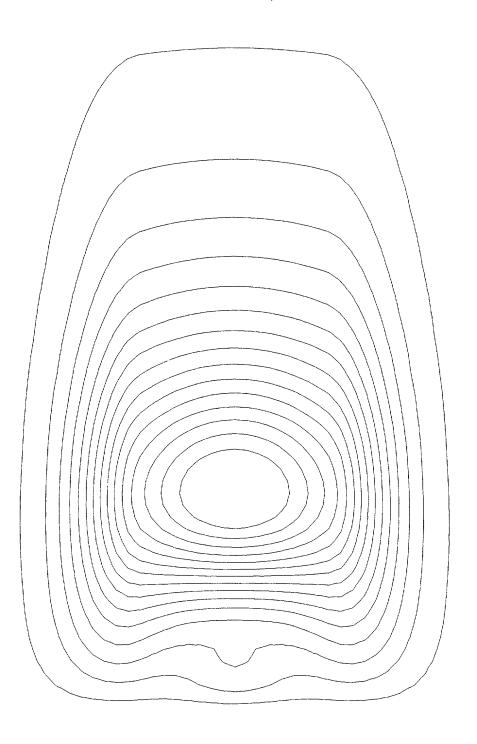


Figure 5: Primary coil: Regular Biplanar Y gradient pattern

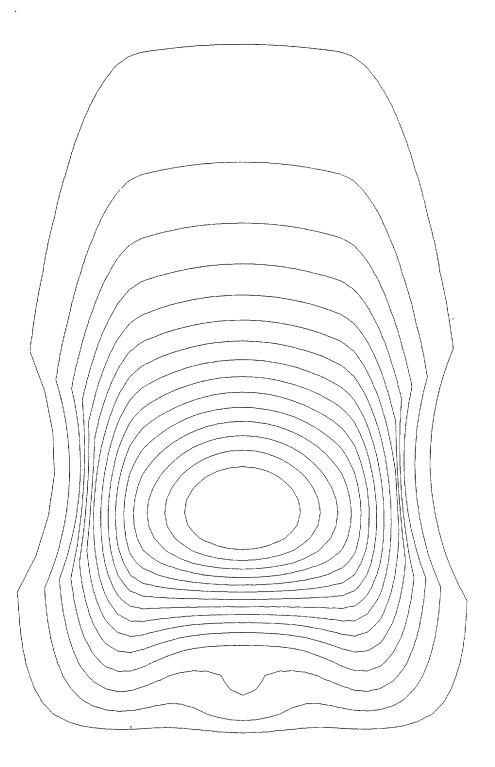


Figure 6: Primary coil: Parabolic Cut-offs for the Biplanar Y gradient pattern

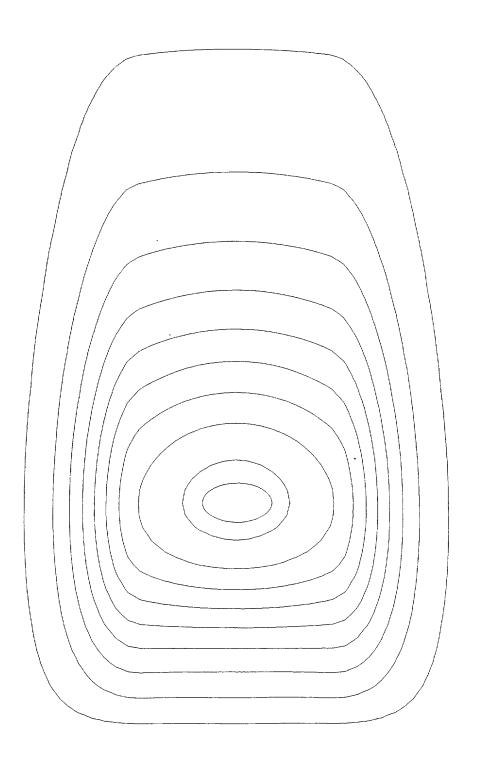


Figure 7a: Secondary coil: Regular Biplanar Y gradient pattern

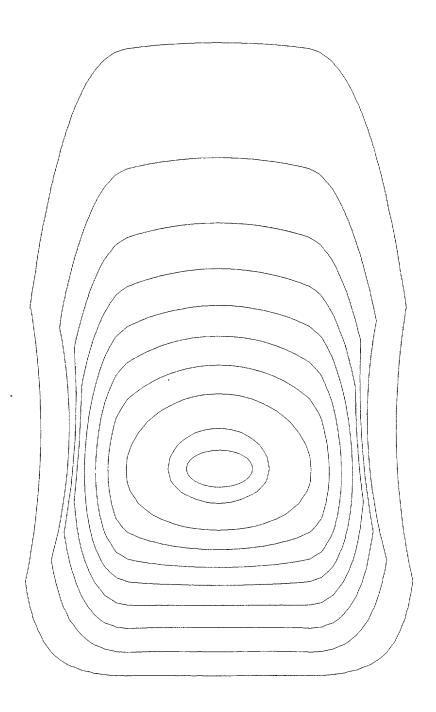


Figure 7b: Secondary coil: Parabolic Cut-offs for the Biplanar Y gradient pattern

10.00E-	3.87E-04
03	
2.00E-02	7.76E-04
3.00E-02	1.17E-03
4.00E-02	1.56E-03
5.00E-02	1.96E-03
6.00E-02	2.37E-03
7.00E-02	2.78E-03
8.00E-02	3.21E-03
9.00E-02	3.67E-03
10.00E-	4.17E-03
02	
0.11	4.72E-03
0.12	5.27E-03
0.13	5.39E-03

Fig &

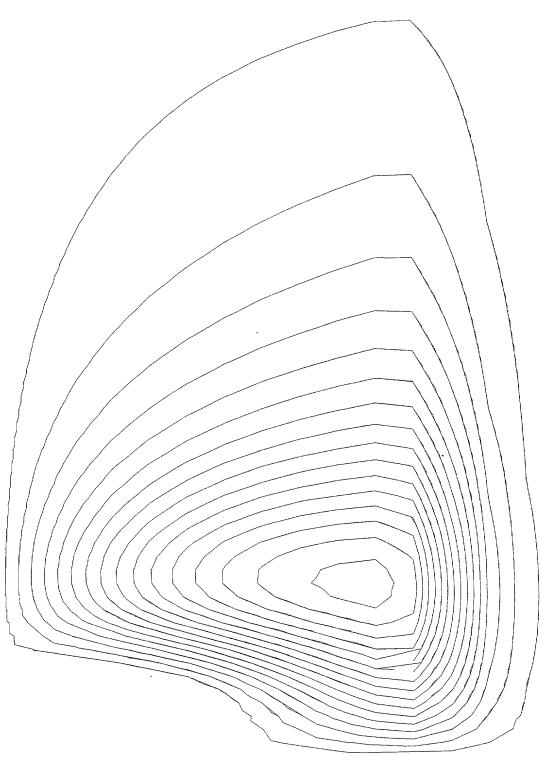


Figure 94

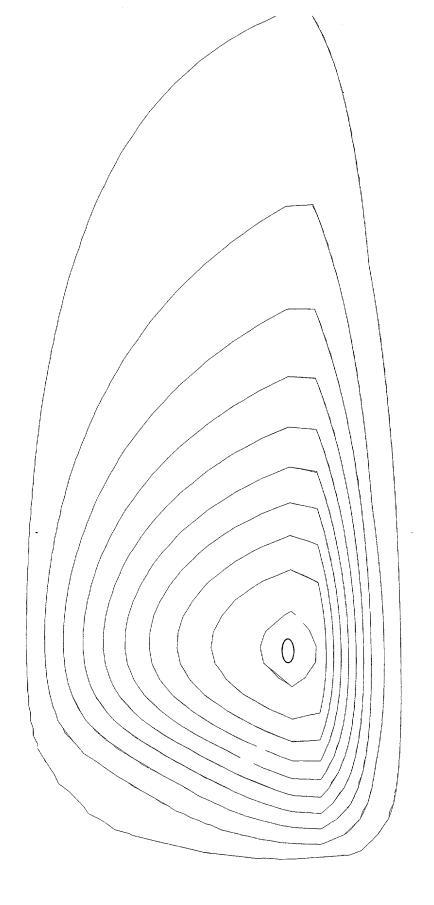


Figure M 10

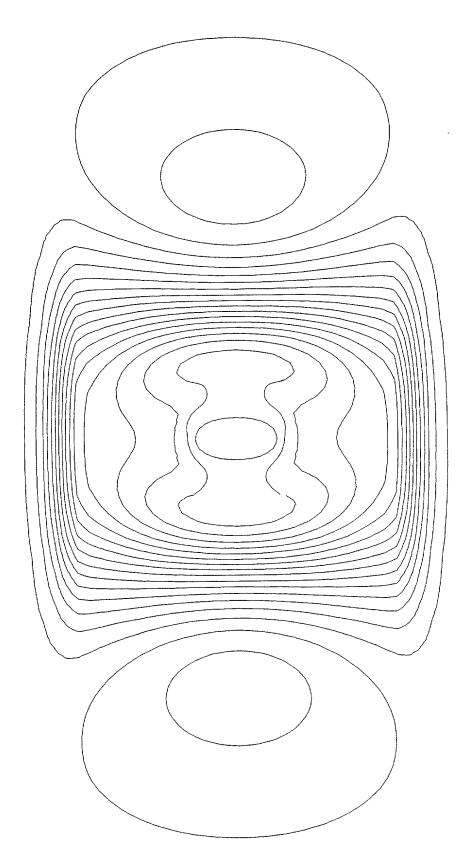


Figure 11

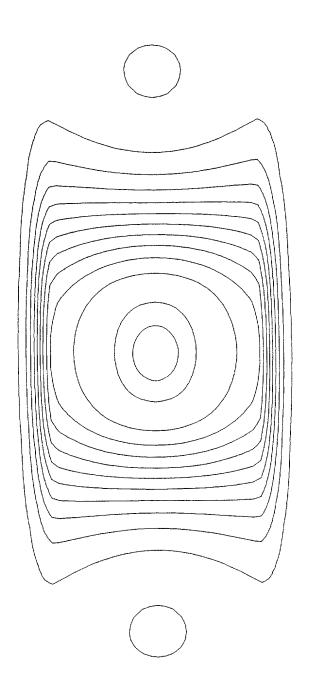


Figure 12

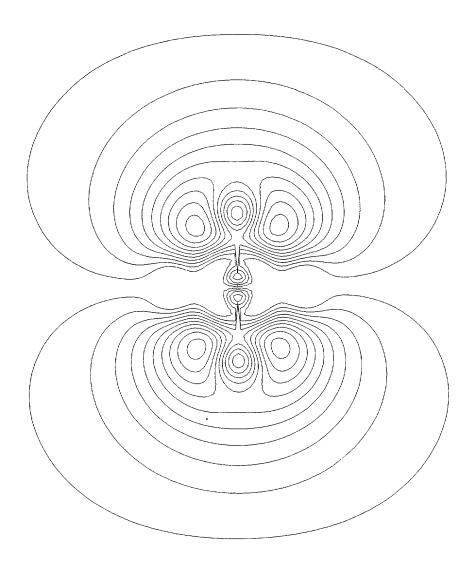


Figure 13

0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	0.00E+01 6.25E-03 1.25E-02 1.88E-02 2.50E-02 3.75E-02 4.38E-02 5.00E-02 5.63E-02 6.25E-02 6.25E-02 8.75E-02 9.38E-02 9.38E-02 0.1 0.10625 0.1125 0.1125 0.00E+01 6.25E-03 1.25E-02 1.88E-02 2.50E-02	0.00E+01 2.51E-04 5.00E-04 7.45E-04 9.86E-04 1.22E-03 1.46E-03 1.97E-03 2.24E-03 2.53E-03 3.20E-03 3.57E-03 3.97E-03 4.38E-03 4.80E-03 5.22E-03 5.63E-03 0.00E+01 2.51E-04 7.53E-04 1.00E-03
0.1 0.1 0.1 0.1 0.1 0.1 0.11 0.11	8.75E-02 9.38E-02 0.1 0.10625 0.1125 0.11875 0.00E+01 6.25E-03 1.25E-02	3.97E-03 4.38E-03 4.80E-03 5.22E-03 5.63E-03 6.01E-03 0.00E+01 2.51E-04 5.02E-04

Fig. 14

```
0.18
      5.00E-02
                 1.92E-03
                 2.16E-03
0.18
      5.63E-02
      6.25E-02
                 2.40E-03
0.18
      6.88E-02
                 2.64E-03
0.18
0.18
      7.50E-02
                 2.88E-03
0.18
      8.13E-02
                 3.11E-03
0.18
      8.75E-02
                 3.35E-03
0.18
      9.38E-02
                 3.58E-03
0.18
            0.1
                 3.80E-03
0.18
       0.10625
                 4.02E-03
        0.1125
                 4.23E-03
0.18
       0.11875
                 4.43E-03
0.18
      0.00E+01
                 0.00E+01
0.19
      6.25E-03
                 2.29E-04
0.19
      1.25E-02
0.19
                 4.59E-04
      1.88E-02
                 6.88E-04
0.19
      2.50E-02
                 9.18E-04
0.19
0.19
      3.13E-02
                 1.15E-03
      3.75E-02
                 1.38E-03
0.19
      4.38E-02
                 1.61E-03
0.19
      5.00E-02
                 1.84E-03
0.19
                 2.07E-03
0.19
      5.63E-02
                 2.29E-03
0.19
      6.25E-02
0.19
      6.88E-02
                 2.52E-03
0.19
      7.50E-02
                 2.74E-03
0.19
      8.13E-02
                 2.96E-03
       8.75E-02
                 3.18E-03
0.19
       9.38E-02
0.19
                 3.40E-03
                 3.61E-03
0.19
            0.1
        0.10625
0.19
                 3.81E-03
0.19
        0.1125
                 4.01E-03
                 4.20E-03
0.19
        0.11875
 0.2 0.00E+01
                 0.00E+01
 0.2 6.25E-03
                 2.20E-04
      1.25E-02
 0.2
                 4.39E-04
 0.2
      1.88E-02
                 6.58E-04
 0.2 2.50E-02
                 8.78E-04
     3.13E-02
                 1.10E-03
 0.2
       3.75E-02
                 1.32E-03
 0.2
 0.2
      4.38E-02
                 1.53E-03
 0.2 5.00E-02
                 1.75E-03
 0.2 5.63E-02
                 1.97E-03
 0.2 6.25E-02
                 2.18E-03
 0.2 6.88E-02
                 2.40E-03
 0.2 7.50E-02
                 2.61E-03
 0.2 8.13E-02
                 2.82E-03
 0.2 8.75E-02
                  3.02E-03
  0.2
       9.38E-02
                  3.22E-03
  0.2
            0.1
                  3.42E-03
        0.10625
                  3.61E-03
  0.2
                  3.79E-03
  0.2
         0.1125
 0.2
        0.11875
                  3.97E-03
      0.00E+01
                 0.00E+01
0.21
0.21
       6.25E-03
                 2.09E-04
0.21
       1.25E-02
                  4.18E-04
0.21
       1.88E-02
                  6.27E-04
```

0.21 0.21 0.21 0.21 0.21 0.21 0.21 0.21	2.50E-02 3.13E-02 3.75E-02 4.38E-02 5.00E-02 5.63E-02 6.25E-02 8.75E-02 9.38E-02 0.110625 0.1125 0.00E+01 6.25E-03 1.25E-02 1.88E-02 2.50E-02 3.75E-02 4.38E-02 2.50E-02 5.03E-02 6.25E-02 6.25E-02 6.25E-02 6.25E-02 8.75E-02 9.38E-02 7.50E-02 8.75E-02 9.38E-02 0.110625 0.1125	8.36E-04 1.04E-03 1.25E-03 1.46E-03 1.66E-03 1.87E-03 2.27E-03 2.47E-03 2.67E-03 2.86E-03 3.05E-03 3.23E-03 3.75E-03 0.00E+01 1.99E-04 1.99E-04 1.19E-03 1.38E-03 2.52E-03 2.34E-03 2.52E-03 2.52E-03 2.52E-03 2.52E-03 2.52E-03 3.05E-04 7.94E-04 1.19E-03 1.38E-03 2.52E-03 2.52E-03 2.70E-04 1.52E-04 9.91E-04 1.52E-03 2.52E-03 2.52E-03 2.52E-03 2.52E-03 2.52E-03 2.52E-03 3.05E-04 7.52E-04 9.39E-04 1.12E-03 1.31E-03 1.68E-03 2.21E-03 2.21E-03 2.38E-03 2.21E-03 2.38E-03 3.34E-03 3.34E-03 3.34E-03 3.34E-03
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0.24         9.38E-02         2.56E-03           0.24         0.10625         2.86E-03           0.24         0.1125         3.00E-03           0.24         0.11875         3.14E-03           0.25         0.00E+01         0.00E+01           0.25         6.25E-03         1.68E-04           0.25         1.25E-02         3.36E-04           0.25         1.88E-02         5.04E-04           0.25         2.50E-02         6.71E-04           0.25         3.13E-02         8.38E-04           0.25         3.75E-02         1.00E-03           0.25         3.75E-02         1.00E-03           0.25         3.75E-02         1.00E-03           0.25         3.75E-02         1.00E-03           0.25         5.00E-02         1.33E-03           0.25         5.63E-02         1.49E-03           0.25         6.25E-02         1.65E-03           0.25         6.88E-02         1.81E-03           0.25         7.50E-02         1.96E-03           0.25         7.50E-02         1.26E-03           0.25         0.10625         2.26E-03           0.25         0.1125         2.83E-03      <	0.24 0.24 0.24 0.25 0.26	7.50E-02 8.13E-02 9.38E-02 9.38E-02 0.1125 0.1125 0.11875 0.00E+01 6.25E-03 1.25E-02 1.88E-02 5.313E-02 4.38E-02 5.63E-02 6.25E-02 6.88E-02 7.50E-02 8.75E-02 9.38E-02 0.1125 0.1	2.71E-03 2.86E-03 3.00E-03 3.14E-03 0.00E+01 1.68E-04 3.36E-04 5.04E-04 6.71E-04 8.38E-04 1.00E-03 1.17E-03 1.33E-03 1.49E-03 1.65E-03 2.26E-03 2.12E-03 2.26E-03 2.26E-03 2.55E-03 2.55E-03 2.55E-03 2.55E-03 2.55E-03 2.55E-03 2.55E-03 2.55E-03 2.55E-03 2.55E-03 1.59E-04 3.17E-04 4.75E-04 6.33E-04 7.90E-04 9.46E-04 1.10E-03 1.25E-03 1.56E-03 1.56E-03 1.56E-03 1.56E-03 1.56E-03 1.56E-03 1.56E-03 1.56E-03 1.56E-03
---	--	---	--

ij

```
2.40E-03
0.26
           0.1
                 2.53E-03
0.26
       0.10625
        0.1125
0.26
                 2.66E-03
       0.11875
                2.78E-03
0.26
      0.00E+01
                0.00E+01
0.27
0.27
      6.25E-03
                 1.49E-04
      1.25E-02
                 2.99E-04
0.27
0.27
      1.88E-02
                 4.48E-04
                 5.96E-04
0.27
      2.50E-02
                 7.44E-04
0.27
      3.13E-02
0.27
      3.75E-02
                 8.90E-04
0.27
      4.38E-02
                 1.04E-03
      5.00E-02
0.27
                 1.18E-03
      5.63E-02
0.27
                 1.32E-03
      6.25E-02
                 1.46E-03
0.27
      6.88E-02
                 1.60E-03
0.27
0.27
      7.50E-02
                 1.74E-03
      8.13E-02
                 1.87E-03
0.27
0.27
      8.75E-02
                 2.01E-03
      9.38E-02
                 2.13E-03
0.27
            0.1
                 2.26E-03
0.27
                 2.38E-03
       0.10625
0.27
        0.1125
                 2.50E-03
0.27
       0.11875
                 2.62E-03
0.27
      0.00E+01
0.28
                 0.00E+01
                 1.41E-04
0.28
      6.25E-03
                 2.81E-04
0.28
       1.25E-02
0.28
       1.88E-02
                 4.21E-04
0.28
      2.50E-02
                 5.61E-04
       3.13E-02
                 7.00E-04
0.28
       3.75E-02
                 8.38E-04
0.28
0.28
       4.38E-02
                  9.75E-04
       5.00E-02
                  1.11E-03
0.28
       5.63E-02
                  1.24E-03
0.28
                 1.38E-03
0.28
       6.25E-02
                 1.51E-03
0.28
       6.88E-02
       7.50E-02
                 1.64E-03
0.28
       8.13E-02
                 1.76E-03
0.28
       8.75E-02
                  1.89E-03
0.28
0.28
       9.38E-02
                 2.01E-03
                  2.13E-03
0.28
             0.1
        0.10625
                  2.24E-03
 0.28
                  2.35E-03
        0.1125
 0.28
                  2.46E-03
 0.28
        0.11875
 0.29
      0.00E+01 0.00E+01
                 1.32E-04
 0.29
       6.25E-03
                  2.65E-04
 0.29
       1.25E-02
       1.88E-02
                  3.97E-04
 0.29
       2.50E-02
                 5.28E-04
 0.29
 0.29
       3.13E-02
                  6.59E-04
 0.29
       3.75E-02
                 7.88E-04
 0.29
       4.38E-02
                  9.17E-04
 0.29
       5.00E-02
                  1.04E-03
 0.29
       5.63E-02
                  1.17E-03
 0.29
       6.25E-02
                  1.30E-03
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1.42E-03

0.29

6.88E-02

0.29	7.50E-02	1.54E-03
0.29	8.13E-02	1.66E-03
0.29	8.75E-02	1.77E-03
0.29	9.38E-02	1.89E-03
0.29	0.1	2.00E-03
0.29	0.10625	2.11E-03
0.29	0.1125	2.21E-03
0.29	0.11875	2.31E-03
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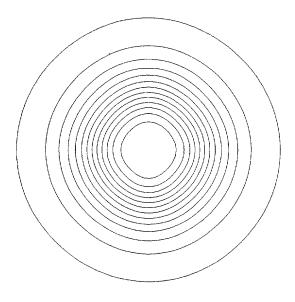


Figure 15

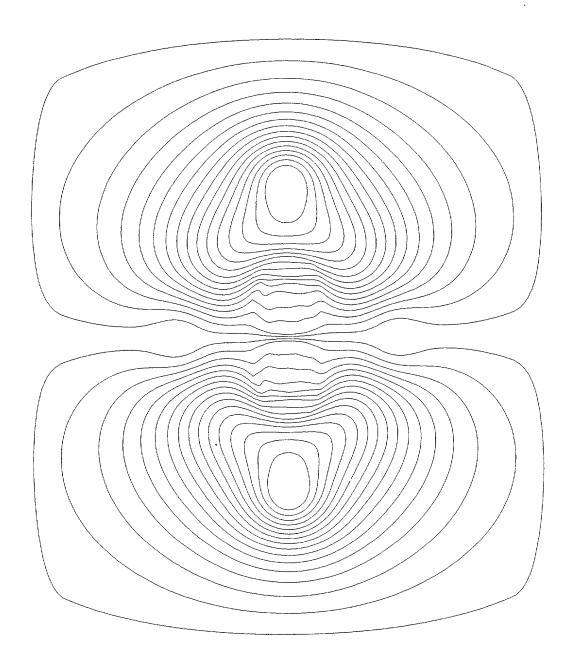


Figure 16a

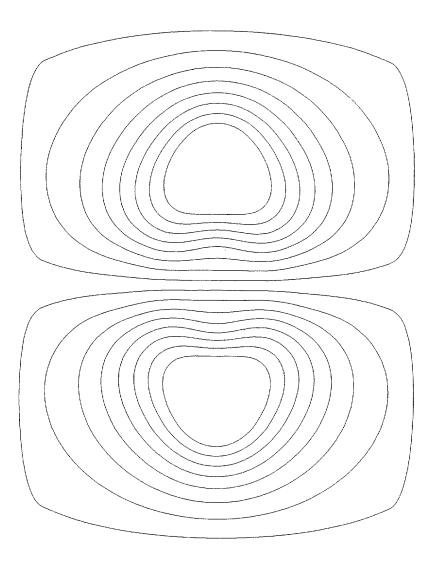


Figure 16b

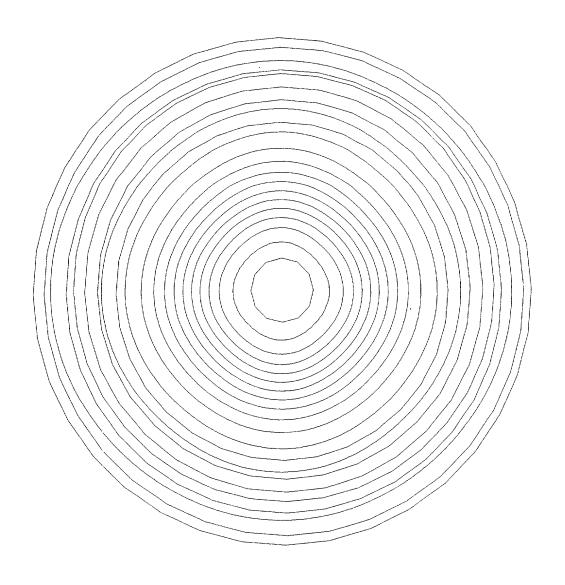


Figure 17a

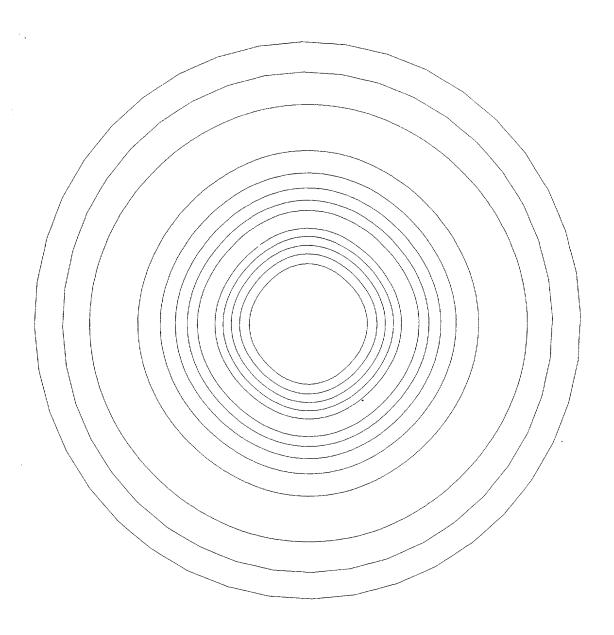


Figure 17b

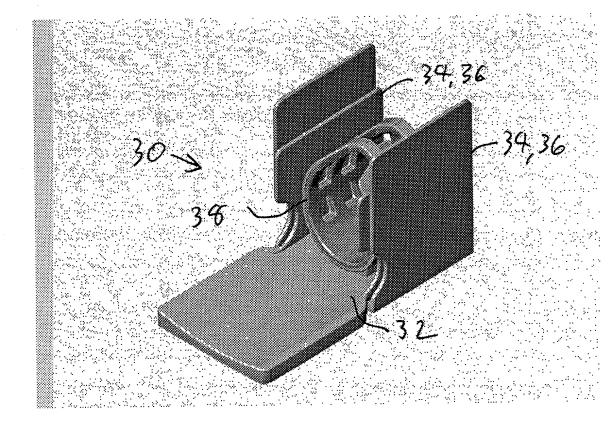


Figure 18

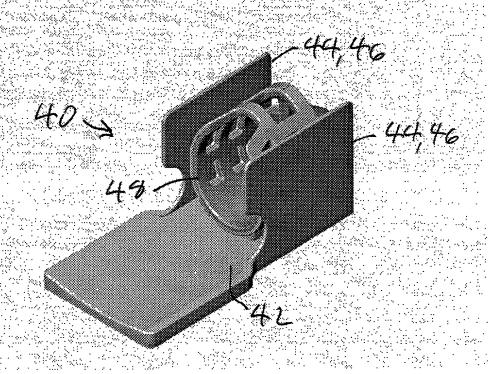


Figure 19

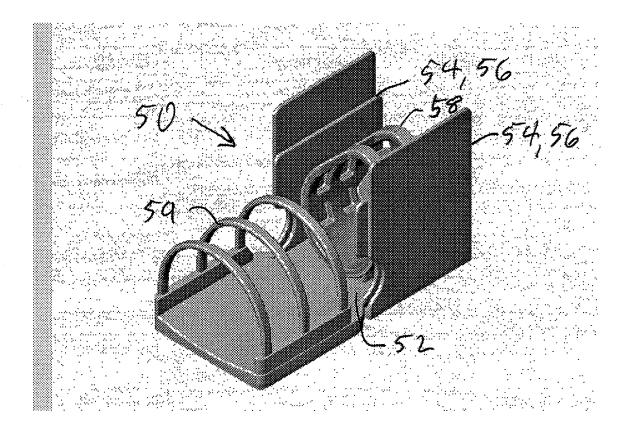


Figure 20

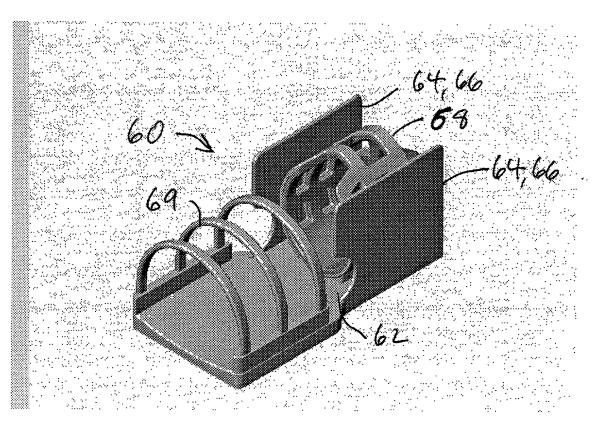


Figure 21

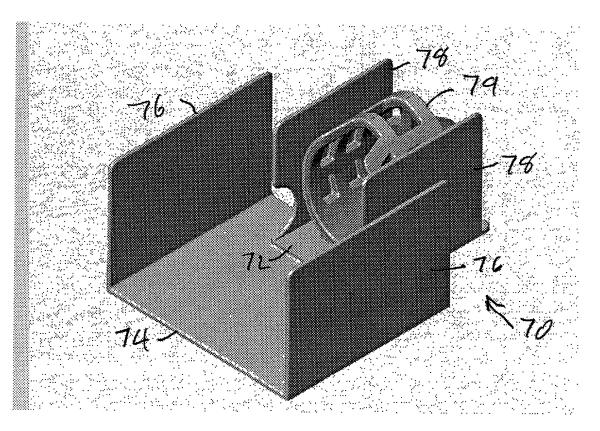


Figure 22

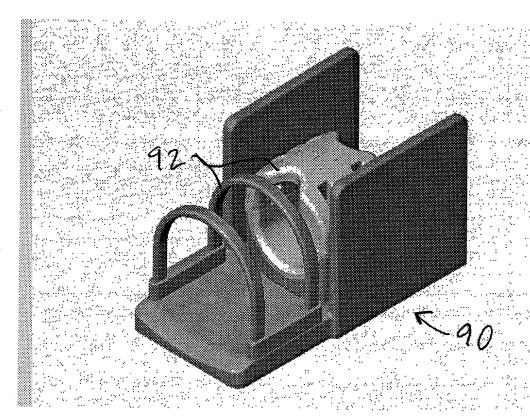


Figure 23

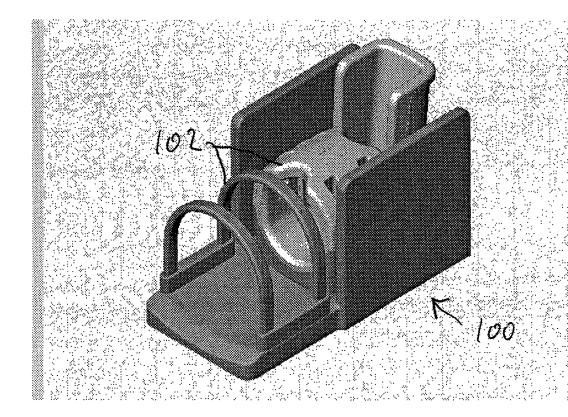


Figure 24